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- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: GLYCOGEN SYNTHASE KINASE-3 INHIBITORS

(57) Abstract: Novel conjugates that are capable of inhibiting GSK-3 activity, a process of producing same, pharmaceutical compositions including same and methods of using same in the treatment of GSK-3 mediated conditions are disclosed. Methods of treating affective disorders using GSK-3 inhibitors are further disclosed.

INTERNATIONAL SEARCH REPORT

interional Application No PCT/IL 03/01057

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07K14/47 C07K7/06

C12Q1/48

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 C07K C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, MEDLINE, EMBASE, WPI Data, CHEM ABS Data, BIOSIS, PAJ

Category *	Citation of document with Indication				
	Citation of document, with Indication, where appropriate, of	Relevant to claim No.			
X	WO 01/49709 A (ELDAR FINKLEMA RAMOT (IL); MCINNIS PATRICIA 12 July 2001 (2001-07-12) the whole document	1-166			
X	WO 02/24941 A (UNIV DUNDEE ;B: (GB); FRAME SHEELAGH (GB)) 28 March 2002 (2002-03-28) the whole document	1-166			
X	OELRICHS P B ET AL: "UNIQUE PEPTIDES ISOLATED FROM SAWFLY THREE CONTINENTS" TOXICON, ELMSFORD, NY, US, vol. 37, no. 3, 1999, pages 5: XP000994829 ISSN: 0041-0101 figure 3	1-5, 10-13			
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	er documents are listed in the continuation of box C.	χ Patent family members are listed	in annex.		
"A" documer consider filing de "L" documer which is citation "O" documer other m" "P" documer later th:	nt which may throw doubts on priority claim(s) or so cited to establish the publication date of another or other special reason (as specified) interesting to an oral disclosure, use, exhibition or neans in published prior to the international filing date but an the priority date claimed	or priority date and not in conflict with cited to understand the principle or the invention *X* document of particular relevance; the cannot be considered novel or cannot involve an inventive step when the document of particular relevance; the cannot be considered to involve an indocument is combined with one or ments, such combination being obvious the art.	 "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled 		
Date of the a	ctual completion of the international search	Date of mailing of the international sea			
21	May 2004	04/06/2004			
Name and m	ailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk	Authorized officer			

INTERNATIONAL SEARCH REPORT

Intertional Application No PCT/IL 03/01057

ontinuation) DOCUMENTS CONSIDERED TO BE RELEVANT gory • Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	Helevant to claim No.
CLOAD STANKELMAN II ST AL	
ELDAR-FINKELMAN H ET AL: "The insulin mimetic action of glycogen synthase kinase-3 inhibitors" DIABETOLOGIA, vol. 45, no. Supplement 2, August 2002 (2002-08), page A 70 XP009031166 38th Annual Meeting of the European Association for the Study of Diabetes (EASD);Budapest, Hungary; September 01-05, 2002 ISSN: 0012-186X abstract	1-142
PLOTKIN BATYA ET AL: "Insulin mimetic action of synthetic phosphorylated peptide inhibitors of glycogen synthase kinase-3." JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS, vol. 305, no. 3, June 2003 (2003-06), pages 974-980, XP009031218 ISSN: 0022-3565 (ISSN print) the whole document	1-166
	1

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Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This international Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely: see FURTHER INFORMATION sheet PCT/ISA/210
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)
This international Searching Authority found multiple inventions in this international application, as follows:
1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the Invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

International Application No. PCT/ IL 03 /01057

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.1

Although independent claims 88, 118 and 142 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compounds.

Continuation of Box I.1

Rule 39.1(iv) PCT - Method for treatment of the human or animal body by therapy



int tional Application No
PCT/IL 03/01057

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Form PCT/ISA/210 (patent family annex) (January 2004)